

92-384555/47 A89 L01 NIPPON SHEET GLASS CO LTD  
91.03.08 91JP-069177 (92.10.07) G02B 5/26

A(12-L3B) L(1-G4B, 1-G4D, 3-G2)

NIPG 91.03.08  
\*JP 04281403-A

Laminated IR reflector with high transmittance for visible light - comprises transparent plate with coating of thin film reflecting IR in wide wavelength range, and filter made of cholesterol liq. crystal exhibiting sharp wavelength selective reflections in IR zone  
C92-170538

The IR reflector is a laminate comprising a transparent plate with a coating of thin film reflecting the IR in a wide range of wavelengths and a wavelength filter made of a cholesteric liq. crystal exhibiting sharp wavelength selective reflections in the near IR zone, and has a high reflectivity for the IR and a high transmittance for the visible light. Typically the transparent plate is an inorganic glass, or an organic glass e.g. acrylic, polyester or polycarbonate in film or sheet form.

In an example, three different polymer liq. crystal films are used in laminate. The reflectance curves of the respective films are presented. A coating of reflector film exhibiting high reflectance in the wavelength range greater than about 750 nm is applied over one surface of a glass plate. The polymer liq. crystal laminate is sandwiched between this glass plate and another glass plate and laminated with polyvinyl butyral as the adhesive, with the coating of the glass plate inside. (4pp Dwg.No.0/4)